

A NEW SPECIES OF ARGYTHAMNIA (EUPHORBIACEAE) FROM MEXICO

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ARGYTHAMNIA LOTTIAE J. Ingram, sp. nov.

Frutex dioecius vel monoecius ad 1.5 m altus; folia elliptica, 3-8.5 cm longa, 1.5-3.8 cm lata, apice plerumque rotundata, aliquando obtusa, basi acuta vel obtusa, superficiebus ambabus oculo nudo visis apparenter glabris sed pilos malpighiaceos gerentibus, aliquos 1.5 mm longos sed plurimos ca. 0.5 mm longos, venis in superficie infera pilis malpighiaceis 1.5 mm longis praeditis, marginibus quasi integris sed glandulas aliquando gerentibus. Inflorescentia 0.8-1.5 cm longa, pilis malpighiaceis dense praedita. *Flores masculi*: sepala 4, elliptica, 1.5 mm longa, ca. 0.75 mm lata, intus glabra, extus pilis malpighiaceis densis appressis induta, acuta; petala 4, latissime ovata vel depresso-ovata, unguiculata, filamentum amplectentia, ca. 1.5 mm longa, ca. 1.5 mm lata, ad androphorum adnata, intus praeter aream pilorum ad juncturam laminae et unguis glabra, extus pilis malpighiaceis praedita; stamina 4, exserta, filamentis ca. 0.75 mm longis, basi dilatatis et piliferis. *Flores feminei*: sepala 5, ovata, 4 mm longa, 1.5-2 mm lata, intus pilis malpighiaceis et simplicibus praedita, extus pilis malpighiaceis densis praedita, acuta; petala nulla vel rudimentaria; glandes in ambitu radali rectangulares, glabrae; semina globosa, 2.2-5 mm alta lataque, porcis irregularibus asperata.

Dioecious or monoecious shrub 1.5 m tall, the stems at first bearing malpighiaceous hairs, becoming glabrous; leaves elliptic, 3-8.5 cm long, 1.5-3.8 cm wide, apex mostly rounded, sometimes obtuse, base acute to obtuse, both surfaces appearing glabrous to the naked eye but bearing malpighiaceous hairs, some 1.5 mm long but mostly ca. 0.5 mm long, the veins on lower surface with malpighiaceous hairs 1.5 mm long, margins essentially entire but bearing occasional glands; petioles 2.5-3 mm long, with malpighiaceous hairs; stipules narrowly triangular, ca. 2 mm long. Inflorescence 0.8-1.5 cm long, with dense malpighiaceous hairs. *Staminate flowers*: sepals 4, elliptic, 1.5 mm long, ca. 0.75 mm wide, glabrous on interior, with dense, appressed, malpighiaceous hairs on exterior, acute; petals 4, very broadly ovate to depressed-ovate, clawed, enfolding the filament, ca. 1.5 mm long, ca. 1.5 mm wide, united to the androphore, glabrous on the inte-

rior except for a patch of hairs at juncture of blade and claw, with malpighiaceae hairs on exterior; glands 4, globose, glabrous; stamens 4, exserted, filaments ca. 0.75 mm long, dilated and hairy at the base. *Pistillate flowers*: sepals 5, ovate, 4 mm long, 1.5-2 mm wide, with malpighiaceae and simple hairs on interior, with dense malpighiaceae hairs on exterior, acute, petals absent or rudimentary; glands 5, rectangular in radial outline, glabrous; ovary with dense malpighiaceae hairs, the styles distinct except at the base, twice bifid, with malpighiaceae hairs, the stigmas slightly flattened; seeds globose, 2-2.25 mm high and wide, roughened with irregular ridges.

Type: MEXICO. Jalisco: Mpio. La Huerta; Estación de Biología Chamela (UNAM). Lat. 19° 30' N; Long. 105° 03' W. 11 Oct 1982, *Emily J. Lott 1451* (holotype, BH!).

Additional specimens examined: Jalisco: Bottom of cañada, mouth of Cuenca 4, Selva Tropical Caducifolia or subcaducifolia, near Estación Biología Chamela, 10 Dec 1981, *Stephen H. Bullock 1047* (BH); Mouth of "Cuenca 4", selva tropical caducifolia, near Ext. Biol. Chamela, 11 Nov 1981, *Stephen H. Bullock 1020* (BH).

Argythamnia lottiae seems to show a close relationship to *A. moorei* and *A. coatepensis*. It differs from *A. moorei* in that its leaves are serrulate and glabrous on the upper surface, inflorescences 2.5-5.5 cm long, and pistillate flowers with well-developed petals and triangular glands. It differs from *A. coatepensis* in its ovate leaves that are densely hairy on both surfaces, inflorescences 2.5-5.5 cm long, staminate flowers with petals hairy on both surfaces, and pistillate flowers with well-developed petals.

This species is named for Emily J. Lott, who has provided me specimens of the new species. The Latin diagnosis is by Dr. William J. Dress; the illustration is from the skilled hand of Bente King Everhart.

ILLUSTRATION

Fig. 1. *Argythamnia lottiae*: a, branch; b, leaf, upper surface; c, leaf, lower surface; d, leaf, upper surface; e, leaf, lower surface; f, staminate flower; g, sepal of staminate flower, lower surface; h, sepal of staminate flower, upper surface; i, petal of staminate flower, lower surface; j, petal of staminate flower, upper surface; k, pistillate flower; l, sepal of pistillate flower, lower surface; m, sepal of pistillate flower, upper surface; n, seed. (a-j, n, *Lott 1451* [BH, holotype]; k-m, *Bullock 1047* [BH]).

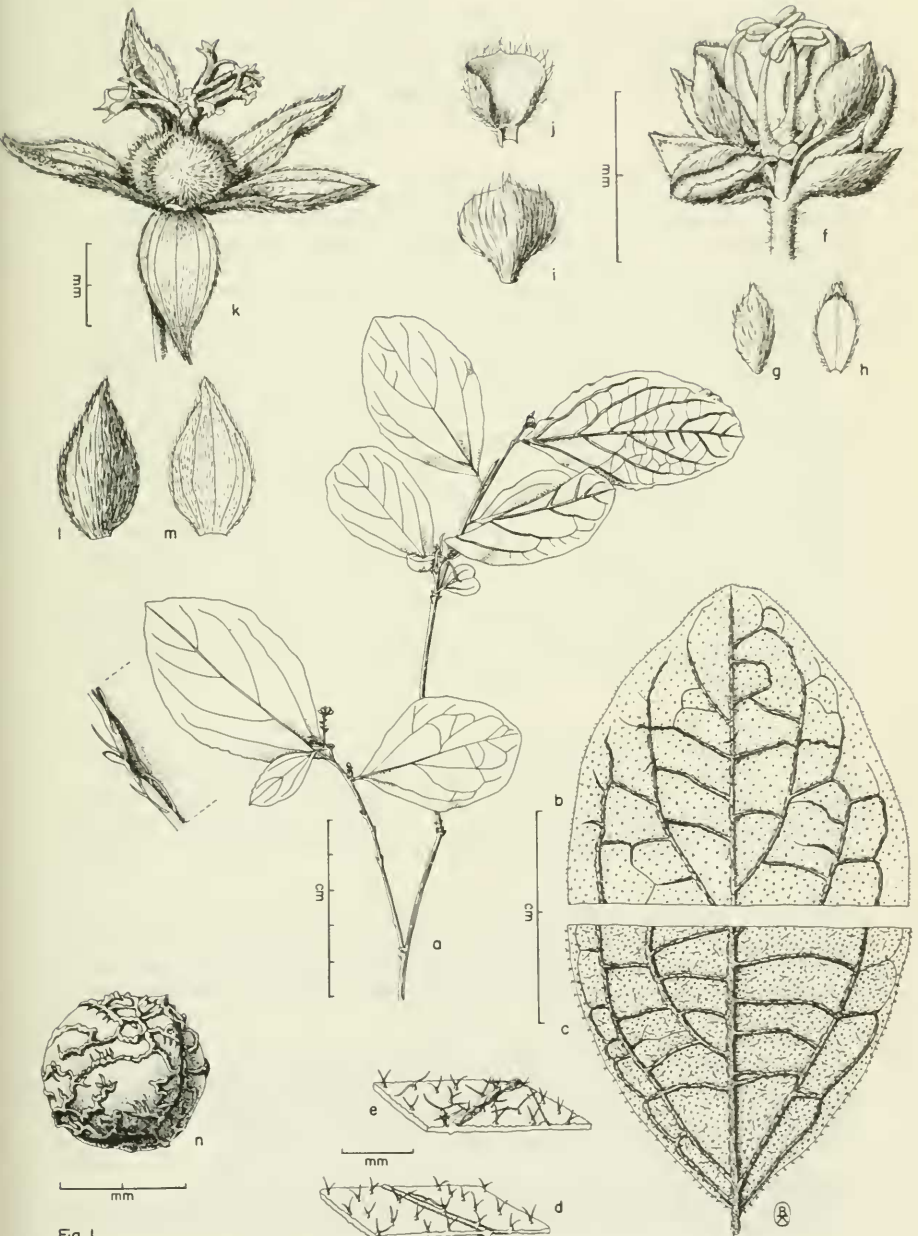


Fig. 1